

Teachers' use of various instructional methods

Determining which teaching methods are most effective for educating students has historically been a topic of debate in the education community. As a result of the education reform movement, many teachers are introducing new teaching methods, such as using exercises to build student knowledge rather than those requiring students to memorize facts. A snapshot of the various instructional methods currently being used in the classroom can help us better understand how teachers are communicating with students, as well as serve as a baseline for monitoring the acceptance of these methods over time.

- In the 1994–95 school year, 97 percent of public school teachers worked with individual students at least once a week; 87 percent worked with small groups of students; and 62 percent lectured to their students. To demonstrate a concept to their class, 87 percent of public school teachers used the board or overhead projector, while 57 percent used a computer, videotape, or other electronic medium.
- Ninety percent of public school teachers asked students to respond orally to questions testing recall and 85 percent asked students to respond orally to open-ended questions at least once a week. Seventy-two percent of public school teachers had students use textbooks, while 29 percent required students to use school computers for writing.
- Public school teachers were more likely than private school teachers to work with small groups of students and to demonstrate concepts using a computer, videotape, or other electronic medium, while private school teachers were more likely than public school teachers to lecture to their students.
- Elementary teachers were more likely to work with small groups of students and to demonstrate concepts using a computer, videotape, or other electronic medium than were secondary teachers.

Percentage of teachers¹ who used selected teaching methods, by control and level of school: School year 1994–95

Selected teaching methods	Public			Private		
	Total ²	Elementary ²	Secondary	Total ²	Elementary ²	Secondary
Percentage of teachers who reported using the following instructional strategies at least once a week ³						
Provide instruction to the class as a whole	97.9	99.2	98.0	97.2	98.7	98.1
Demonstrate a concept using the board or overhead projector	87.1	96.9	86.7	87.1	96.2	88.6
Work with individual students	96.6	99.6	94.9	94.4	99.1	91.8
Demonstrate a concept using a computer, videotape, or other electronic medium	56.5	74.5	46.9	45.3	56.9	38.6
Lecture	61.6	68.7	66.9	69.0	78.4	73.3
Work with small groups of students	87.0	95.9	79.7	81.0	90.5	72.1
Percentage of teachers who required students to perform the following in-class activities at least once a week ³						
Respond orally to questions testing recall	90.3	96.0	86.8	88.8	94.5	89.7
Complete a worksheet or workbook emphasizing routine practice	67.1	86.3	62.2	70.4	93.0	57.9
Use a textbook	71.7	88.3	75.7	79.2	92.3	83.6
Engage in discussion primarily with the teacher	85.2	94.6	80.7	86.3	92.1	86.7
Use school computers for writing	29.3	49.8	17.8	27.1	39.9	21.5
Respond orally to open-ended questions	85.4	93.6	80.1	84.2	93.5	81.8

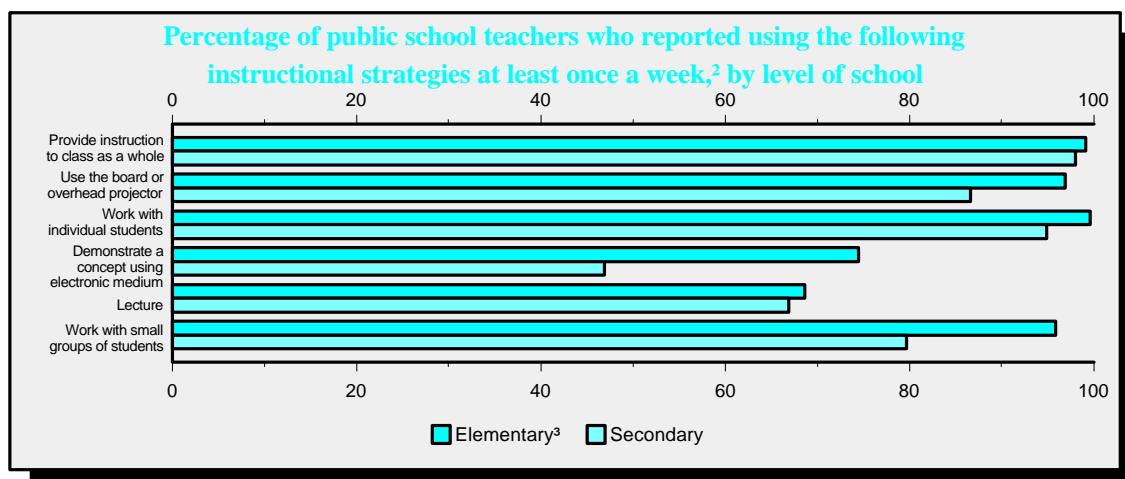
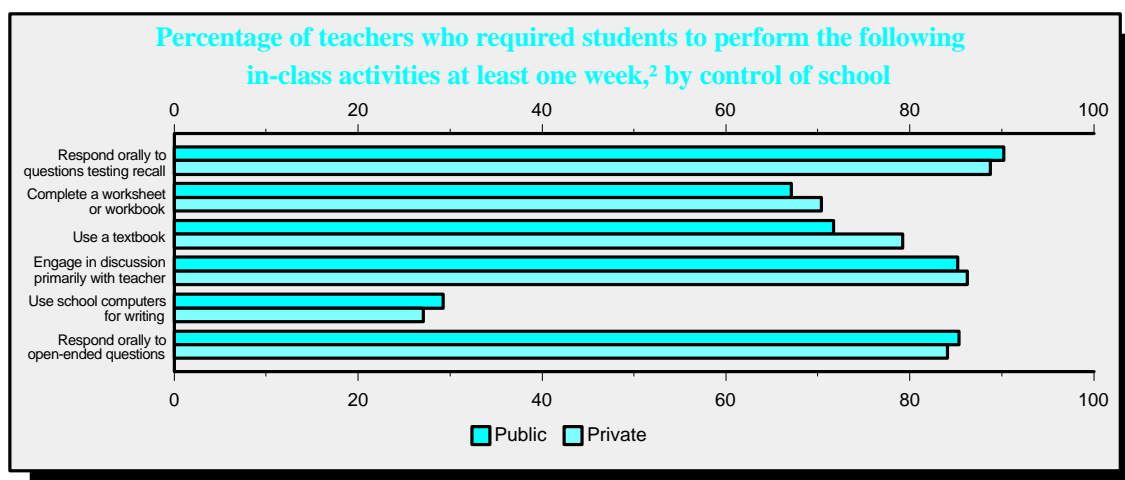
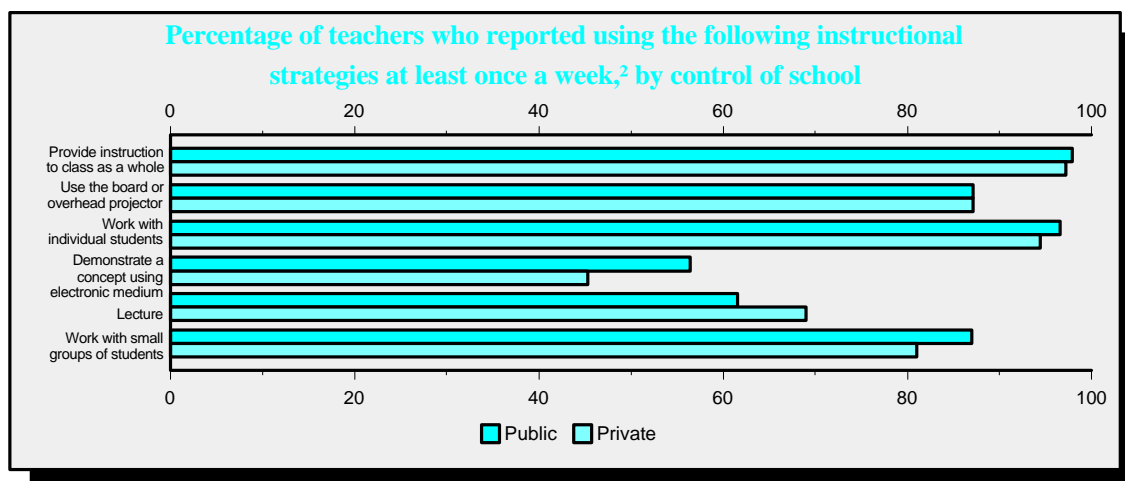
¹ Includes only those teachers who taught in both the 1993–94 and 1994–95 school years; therefore, new teachers are not included in this analysis.

² "Total" includes all elementary and secondary teachers, while "elementary" includes only those whose main assignment was teaching "general elementary." See the supplemental note to Indicator 36 for further discussion.

³ Includes those teachers who responded "almost every day" and "once or twice a week."

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow-up Survey, 1994–95.

Percentage of teachers¹ using selected teaching methods:
School year 1994–95



¹ Includes only those teachers who taught in both the 1993–94 and 1994–95 school years; therefore, new teachers are not included in this analysis.

² Includes those teachers who responded "almost every day" and "once or twice a week."

³ "Elementary" includes only those whose main assignment was teaching "general elementary." See the supplemental note to *Indicator 36* for further discussion.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow-up Survey, 1994–95.

**Percentage of teachers¹ who used selected teaching methods, by control and level of school:
School year 1994–95**

Selected teaching methods	Public			Private		
	Total ²	Elementary ²	Secondary	Total ²	Elementary ²	Secondary
Percentage of teachers who reported using the following instructional strategies at least once a week ³						
Provide instruction to the class as a whole	97.9	99.2	98.0	97.2	98.7	98.1
Demonstrate a concept using the board or overhead projector	87.1	96.9	86.7	87.1	96.2	88.6
Work with individual students	96.6	99.6	94.9	94.4	99.1	91.8
Demonstrate a concept using a computer, videotape, or other electronic medium	56.5	74.5	46.9	45.3	56.9	38.6
Lecture	61.6	68.7	66.9	69.0	78.4	73.3
Work with small groups of students	87.0	95.9	79.7	81.0	90.5	72.1
Percentage of teachers who required students to perform the following in-class activities at least once a week ³						
Respond orally to questions testing recall	90.3	96.0	86.8	88.8	94.5	89.7
Complete a worksheet or workbook emphasizing routine practice	67.1	86.3	62.2	70.4	93.0	57.9
Use a textbook	71.7	88.3	75.7	79.2	92.3	83.6
Engage in discussion primarily with the teacher	85.2	94.6	80.7	86.3	92.1	86.7
Use school computers for writing	29.3	49.8	17.8	27.1	39.9	21.5
Respond orally to open-ended questions	85.4	93.6	80.1	84.2	93.5	81.8

¹ Includes only those teachers who taught in both the 1993–94 and 1994–95 school years; therefore, new teachers are not included in this analysis.

² "Total" includes all elementary and secondary teachers, while "elementary" includes only those whose main assignment was teaching "general elementary." See the supplemental note to *Indicator 36* for further discussion.

³ Includes those teachers who responded "almost every day" and "once or twice a week."

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow-up Survey, 1994–95.

Table 37-1 Percentage of teachers¹ who used selected teaching methods, by years of teaching experience and level of education: School year 1994-95

Selected teaching methods	Total	Years of teaching experience		Highest degree attained			
		Less than 4	4 or more	Associate's	Bachelor's	Master's	Ed specialist or doctor's
		Percentage of teachers who reported using the following instructional strategies at least once a week ²					
Provide instruction to the class as a whole	97.8	98.2	97.8	89.4	97.4	98.6	99.6
Facilitate a discussion	91.5	92.2	91.4	85.3	91.9	90.7	97.2
Demonstrate a concept using the board or overhead projector	87.1	89.7	86.7	79.3	86.4	87.8	88.7
Work with individual students	96.3	96.7	96.3	97.3	96.7	95.7	99.1
Demonstrate a concept using a computer, videotape, or other electronic medium	55.1	48.0	56.2	53.2	54.3	56.0	62.0
Lecture	62.5	65.9	62.0	58.2	63.1	61.0	68.2
Work with small groups of students	86.3	84.5	86.5	89.9	86.0	86.7	88.8
Lead a question-and-answer session	85.2	84.3	85.3	85.1	85.9	84.0	88.2
Demonstrate a concept using manipulatives, models, other tools, or objects	73.4	73.2	73.4	77.3	75.0	70.6	77.8
Administer a test or quiz for less than a full period	54.8	52.2	55.2	27.0	54.4	53.6	70.7
Administer a test or quiz for a full period	17.0	18.6	16.8	13.1	17.6	16.4	14.2
Percentage of teachers who emphasized the following at least once a week ⁴							
Generalizing from patterns or examples	76.5	75.7	76.7	89.7	74.2	79.4	78.5
Analyzing and interpreting information	81.7	82.2	81.7	91.3	79.7	84.0	85.7
Organizing, summarizing, or displaying information	77.9	78.5	77.8	85.9	76.0	80.2	80.3
Percentage of teachers who responded in the following ways at least once a week ⁴ if a student gave an incorrect response							
Call on other students to get their responses and then discuss what is correct	84.4	85.5	84.2	88.9	85.2	83.1	88.2
Ask the student another question to help him or her get the correct response	93.4	93.5	93.4	95.9	93.6	93.2	94.3
Call on another student likely to give the correct response	69.7	65.7	70.3	72.2	68.9	70.8	74.2
Provide the correct response	60.8	57.3	61.3	58.1	59.3	62.0	70.9

¹ Includes only those teachers who taught in both the 1993-94 and 1994-95 school years; therefore, new teachers are not included in this analysis.

⁴ Includes those teachers who responded "almost every day" and "once or twice a week."

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow-up Survey, 1994-95.

Table 37-2 Percentage of teachers¹ who used selected teaching methods, by control and level of school: School year 1994-95

Selected teaching methods	Public			Private		
	Total ²	Elementary ²	Secondary	Total ²	Elementary ²	Secondary
Percentage of teachers who reported using the following instructional strategies at least once a week ³						
Provide instruction to the class as a whole	97.9	99.2	98.0	97.2	98.7	98.1
Facilitate a discussion	91.6	98.3	87.2	90.8	97.8	88.8
Demonstrate a concept using the board or overhead projector	87.1	96.9	86.7	87.1	96.2	88.6
Work with individual students	96.6	99.6	94.9	94.4	99.1	91.8
Demonstrate a concept using a computer, videotape, or other electronic medium	56.5	74.5	46.9	45.3	56.9	38.6
Lecture	61.6	68.7	66.9	69.0	78.4	73.3
Work with small groups of students	87.0	95.9	79.7	81.0	90.5	72.1
Lead a question-and-answer session	85.3	95.0	81.3	84.5	95.1	81.4
Demonstrate a concept using manipulatives, models, other tools, or objects	74.6	92.8	57.8	64.4	85.3	45.7
Administer a test or quiz for less than a full period	54.4	72.1	56.0	57.3	76.9	59.9
Administer a test or quiz for a full period	16.1	26.5	14.4	23.4	40.6	18.9
Percentage of teachers who emphasized the following at least once a week ³						
Generalizing from patterns or examples	76.7	83.4	73.2	75.3	78.9	74.6
Analyzing and interpreting information	81.6	85.5	80.7	82.4	85.0	85.7
Organizing, summarizing, or displaying information	78.1	83.1	76.5	76.3	81.6	77.4
Percentage of teachers who responded in the following ways if a student gave an incorrect response ³						
Call on other students to get their responses and then discuss what is correct	84.0	88.4	82.0	87.4	92.7	87.8
Ask the student another question to help him or her get the correct response	93.5	97.2	91.0	93.2	97.5	94.7
Call on another student likely to give the correct response	69.5	76.9	63.7	71.4	78.3	71.8
Provide the correct response	61.0	64.9	58.0	59.0	62.5	60.9

¹ Includes only those teachers who taught in both the 1993-94 and 1994-95 school years; therefore, new teachers are not included in this analysis.

² "Total" includes all elementary and secondary teachers, while "elementary" includes only those whose main assignment was teaching "general elementary." See the supplemental note to *Indicator 36* for further discussion.

³ Includes those teachers who responded "almost every day" and "once or twice a week."

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow-up Survey, 1994-95.

Table 37-3 Percentage of teachers¹ who reported that their students participated in selected teaching methods, by control and level of school: School year 1993-94

Selected teaching methods	Public			Private		
	Total ²	Elementary ²	Secondary	Total ²	Elementary ²	Secondary
Percentage of teachers who required students to perform the following in-class activities at least once a week ³						
Respond orally to questions testing recall	90.3	96.0	86.8	88.8	94.5	89.7
Use school- or student-owned calculators	24.4	29.1	25.6	22.8	28.0	25.7
Lead whole group discussions	50.9	62.1	44.5	47.8	55.5	46.0
Listen to or observe teacher presentations	75.6	82.0	74.6	76.0	83.8	72.9
Use hands-on materials or objects	79.9	91.0	68.1	71.8	82.8	54.9
Complete a worksheet or workbook emphasizing routine practice	67.1	86.3	62.2	70.4	93.0	57.9
Use a textbook	71.7	88.3	75.7	79.2	92.3	83.6
Engage in discussion primarily with the teacher	85.2	94.6	80.7	86.3	92.1	86.7
Use school computers for writing	29.3	49.8	17.8	27.1	39.9	21.5
Use supplementary printed materials other than textbooks	79.1	93.5	71.1	69.1	87.8	56.6
Engage in discussion primarily with other students	74.0	88.2	64.7	70.8	85.2	63.1
Respond orally to open-ended questions	85.4	93.6	80.1	84.2	93.5	81.8
Work on a performing arts project	21.8	33.4	10.7	26.9	41.9	11.2
Percentage of teachers who reported that students performed the following at least once a week ³						
Explained how what they learned in class related to the real world	63.5	75.7	58.6	62.4	75.1	55.3
Worked individually on projects or presentations	46.3	58.5	38.0	45.1	48.5	39.3
Worked on projects that required at least one week to complete	18.6	17.9	18.3	18.5	19.3	17.5
Evaluated and improved their own work	61.2	69.6	56.9	54.2	61.5	47.7
Worked on problems for which there were several appropriate answers	59.5	73.3	53.3	54.4	61.6	53.5
Worked on problems for which there were several appropriate methods of solution	58.8	71.9	53.5	55.7	63.5	54.9
Worked as part of a group on projects or presentations to earn individual grades	33.5	37.3	32.5	25.7	31.7	25.2
Evaluated the work of other students	29.7	37.5	25.1	26.8	30.8	22.5
Worked as part of a group on projects or presentations to earn a group grade	18.7	22.8	18.6	13.6	18.9	11.0
Put events or things in order and explained why they were organized that way	39.0	52.5	28.4	31.3	36.7	26.0
Discussed with the whole class solutions developed in small groups	31.5	49.3	22.2	27.4	33.3	22.6
Conferred with other student about their work	66.2	75.1	63.8	59.3	61.7	58.3

¹ Includes only those teachers who taught in both the 1993-94 and 1994-95 school years; therefore, new teachers are not included in this analysis.

² "Total" includes all elementary and secondary teachers, while "elementary" includes only those whose main assignment was teaching "general elementary." See the supplemental note to *Indicator 36* for further discussion.

³ Includes those teachers who responded "almost every day" and "once or twice a week."

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow-up Survey, 1994-95.

Table 37-4 Percentage of teachers¹ who reported that their students participated in selected teaching methods, by years of teaching experience and level of education: School year 1994-95

Selected teaching methods	Years of teaching experience and level of education: School year 1997-98						
	Total	teaching experience		Education level			
		Less than 4	4 or more	Associate's	Bachelor's	Master's	Ed specialist or doctor's
Percentage of teachers who required students to perform the following in-class activities at least once a week ²							
Respond orally to questions testing recall	90.1	89.7	90.1	86.7	91.2	88.8	89.1
Use school- or student-owned calculators	24.2	21.8	24.6	8.4	21.8	26.9	33.3
Lead whole group discussions	50.5	53.5	50.0	45.6	51.5	48.3	58.2
Listen to or observe teacher presentations	75.7	73.5	76.0	78.0	77.0	75.3	65.9
Use hands-on materials or objects	78.9	75.9	79.3	88.5	79.9	77.0	82.7
Complete a worksheet or workbook emphasizing routine practice	67.5	66.9	67.6	57.1	69.3	65.4	67.7
Use a textbook	72.7	73.5	72.5	69.4	73.4	71.5	76.2
Engage in discussion primarily with the teacher	85.3	84.3	85.5	89.6	85.4	85.2	85.5
Use school computers for writing	29.0	28.3	29.1	9.6	29.2	29.0	28.5
Use supplementary printed materials other than textbooks	77.8	77.3	77.9	86.5	77.8	76.5	90.7
Engage in discussion primarily with other students	73.6	74.4	73.5	70.4	73.7	72.0	85.7
Respond orally to open-ended questions	85.2	85.6	85.2	93.9	84.2	85.5	91.7
Work on a performing arts project	22.4	24.6	22.1	25.3	23.9	20.1	23.6
Percentage of teachers who reported that students performed the following at least once a week ²							
Explained how what they learned in class related to the real world	63.4	66.2	63.0	81.0	64.0	61.8	66.9
Worked individually on projects or presentations	46.2	44.2	46.5	64.7	46.4	45.5	48.3
Worked on projects that required at least one week to complete	18.5	17.0	18.8	48.0	16.4	20.1	24.0
Evaluated and improved their own work	60.3	58.8	60.6	80.4	59.1	60.7	70.0
Worked on problems for which there were several appropriate answers	58.8	61.2	58.5	72.5	56.9	59.7	70.3
Worked on problems for which there were several appropriate methods of solution	58.4	60.2	58.1	68.8	55.9	60.6	65.9
Worked as part of a group on projects or presentations to earn individual grades	32.6	34.3	32.3	52.9	29.1	36.3	38.0
Evaluated the work of other students	29.3	30.3	29.2	42.3	28.7	29.8	29.2
Worked as part of a group on projects or presentations to earn a group grade	18.1	18.8	17.9	27.5	15.7	20.8	19.1
Put events or things in order and explained why they were organized that way	38.1	37.3	38.2	61.6	36.9	38.6	45.4
Discussed with the whole class solutions developed in small groups	31.0	34.5	30.4	40.8	29.6	32.5	33.4
Conferred with other student about their work	65.4	66.9	65.2	71.6	66.8	63.7	64.1

¹ Includes only those teachers who taught in both the 1993-94 and 1994-95 school years; therefore, new teachers are not included in this analysis.

² Includes those teachers who responded "almost every day" and "once or twice a week."

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow-up Survey, 1994-95.

Table S37 Standard errors for the text table in *Indicator 37*

Selected teaching methods	Public			Private		
	Total	Elementary	Secondary	Total	Elementary	Secondary
Percentage of teachers who reported using the following instructional strategies at least once a week						
Provide instruction to the class as a whole	0.4	0.4	0.4	0.6	0.7	0.7
Demonstrate a concept using the board or overhead projector	0.7	0.7	1.2	1.1	1.0	1.7
Work with individual students	0.4	0.2	0.7	0.7	0.5	1.4
Demonstrate a concept using a computer, videotape, or other electronic medium	1.0	2.0	1.7	1.5	2.5	2.2
Lecture	1.3	2.1	1.5	1.6	2.3	2.3
Work with small groups of students	0.6	0.9	1.1	1.2	1.8	2.2
Percentage of teachers who required students to perform the following in-class activities at least once a week						
Respond orally to questions testing recall	0.8	0.8	1.3	1.0	1.4	1.5
Complete a worksheet or workbook emphasizing routine practice	0.9	1.3	1.4	1.2	1.2	2.0
Use a textbook	1.2	1.5	1.4	1.3	1.6	1.7
Engage in discussion primarily with the teacher	0.9	0.8	1.4	1.2	1.5	1.8
Use school computers for writing	1.1	2.5	1.4	1.5	2.8	1.6
Respond orally to open-ended questions	0.8	1.2	1.4	1.0	1.1	1.8

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow-up Survey, 1994-95.

Table S37-1 Standard errors for table 37-1

Selected teaching methods	Total	Years of teaching experience		Highest degree attained			
		Less than 4	4 or more	Associate's	Bachelor's	Master's	Ed specialist or doctor's
Percentage of teachers who reported using the following instructional strategies at least once a week							
Provide instruction to the class as a whole	0.3	0.4	0.4	5.2	0.5	0.4	0.3
Facilitate a discussion	0.6	0.9	0.7	5.4	0.8	0.9	1.3
Demonstrate a concept using the board or overhead projector	0.6	0.8	0.7	6.7	1.0	1.2	2.5
Work with individual students	0.4	0.4	0.4	1.4	0.5	0.6	0.4
Demonstrate a concept using a computer, videotape, or other electronic medium	0.9	1.8	1.0	11.0	1.2	1.9	4.9
Lecture	1.1	1.5	1.2	11.6	1.6	1.6	4.2
Work with small groups of students	0.6	0.9	0.7	4.7	0.9	1.2	2.8
Lead a question-and-answer session	0.7	1.1	0.8	5.6	0.9	1.3	3.3
Demonstrate a concept using manipulatives, models, other tools, or objects	1.0	1.4	1.1	9.5	1.3	1.6	3.0
Administer a test or quiz for less than a full period	1.1	1.7	1.1	8.1	1.5	1.4	4.2
Administer a test or quiz for a full period	0.7	1.1	0.8	4.8	1.2	1.0	3.6
Percentage of teachers who emphasized the following at least once a week							
Generalizing from patterns or examples	0.8	1.3	0.9	4.7	1.1	1.4	4.0
Analyzing and interpreting information	0.8	1.1	0.9	3.4	0.9	1.2	3.1
Organizing, summarizing, or displaying informatior	0.9	1.2	1.0	6.5	1.2	1.3	4.2
Percentage of teachers who responded in the following ways at least once a week if a student gave an incorrect response							
Call on other students to get their responses and then discuss what is correct	0.7	1.2	0.8	5.6	1.1	1.1	2.6
Ask the student another question to help him or her get the correct response	0.5	0.7	0.5	1.9	0.7	0.8	2.3
Call on another student likely to give the correct response	0.9	1.3	1.0	7.7	1.3	1.4	4.5
Provide the correct response	1.0	1.5	1.1	10.5	1.4	1.5	4.5

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow-up Survey, 1994–95.

Table S37-2 Standard errors for table 37-2

Selected teaching methods	Public			Private		
	Total	Elementary	Secondary	Total	Elementary	Secondary
Percentage of teachers who reported using the following instructional strategies at least once a week						
Provide instruction to the class as a whole	0.4	0.4	0.4	0.6	0.7	0.7
Facilitate a discussion	0.7	0.6	1.2	0.9	0.7	1.6
Demonstrate a concept using the board or overhead projector	0.7	0.7	1.2	1.1	1.0	1.7
Work with individual students	0.4	0.2	0.7	0.7	0.5	1.4
Demonstrate a concept using a computer, videotape, or other electronic medium	1.0	2.0	1.7	1.5	2.5	2.2
Lecture	1.3	2.1	1.5	1.6	2.3	2.3
Work with small groups of students	0.6	0.9	1.1	1.2	1.8	2.2
Lead a question-and-answer session	0.7	1.0	1.1	1.1	1.2	1.9
Demonstrate a concept using manipulatives, models, other tools, or objects	1.2	1.4	1.7	1.5	2.0	2.3
Administer a test or quiz for less than a full period	1.2	1.8	1.7	1.9	2.9	2.8
Administer a test or quiz for a full period	0.8	2.0	0.9	1.3	2.4	1.7
Percentage of teachers who emphasized the following at least once a week						
Generalizing from patterns or examples	0.9	1.4	1.0	1.3	2.3	2.1
Analyzing and interpreting information	0.9	1.7	1.2	1.2	1.9	1.5
Organizing, summarizing, or displaying information	1.0	2.0	1.2	1.1	2.4	2.0
Percentage of teachers who responded in the following ways if a student gave an incorrect response						
Call on other students to get their responses and then discuss what is correct	0.9	1.5	1.0	1.1	1.1	1.5
Ask the student another question to help him or her get the correct response	0.5	0.8	1.0	0.6	0.7	0.9
Call on another student likely to give the correct response	1.0	1.7	1.5	1.6	2.7	2.1
Provide the correct response	1.2	2.2	1.7	1.5	2.4	2.1

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow-up Survey, 1994-95.

Table S37-3 Standard errors for table 37-3

Selected teaching methods	Public			Private		
	Total	Elementary	Secondary	Total	Elementary	Secondary
Percentage of teachers who required students to perform the following in-class activities at least once a week						
Respond orally to questions testing recall	0.8	0.8	1.3	1.0	1.4	1.5
Use school- or student-owned calculators	1.0	1.9	1.3	1.0	2.3	1.7
Lead whole group discussions	0.9	2.2	1.4	1.9	2.5	2.8
Listen to or observe teacher presentations	1.1	1.6	1.3	1.1	2.2	2.0
Use hands-on materials or objects	1.0	1.3	1.6	1.3	2.2	1.9
Complete a worksheet or workbook emphasizing routine practice	0.9	1.3	1.4	1.2	1.2	2.0
Use a textbook	1.2	1.5	1.4	1.3	1.6	1.7
Engage in discussion primarily with the teacher	0.9	0.8	1.4	1.2	1.5	1.8
Use school computers for writing	1.1	2.5	1.4	1.5	2.8	1.6
Use supplementary printed materials other than textbooks	0.9	1.1	1.5	1.2	1.8	1.9
Engage in discussion primarily with other students	0.9	1.6	1.5	1.1	1.8	1.8
Respond orally to open-ended questions	0.8	1.2	1.4	1.0	1.1	1.8
Work on a performing arts project	0.9	2.1	1.1	1.2	2.9	1.2
Percentage of teachers who reported that students performed the following at least once a week						
Explained how what they learned in class related to the real world	1.1	1.8	1.7	1.3	2.1	2.1
Worked individually on projects or presentations	1.4	2.4	1.7	1.5	2.5	2.2
Worked on projects that required at least one week to complete	1.0	2.0	1.3	1.3	2.4	1.8
Evaluated and improved their own work	1.1	2.0	1.6	1.6	3.0	2.4
Worked on problems for which there were several appropriate answers	1.1	1.8	1.8	1.4	2.9	1.9
Worked on problems for which there were several appropriate methods of solution	1.2	1.7	1.5	1.2	2.4	2.1
Worked as part of a group on projects or presentations to earn individual grades	1.2	2.4	1.6	1.0	2.3	1.8
Evaluated the work of other students	1.2	2.5	1.5	1.3	2.2	1.6
Worked as part of a group on projects or presentations to earn a group grade	1.0	1.9	1.4	1.0	2.2	1.3
Put events or things in order and explained why they were organized that way	1.1	2.4	1.5	1.7	2.6	2.7
Discussed with the whole class solutions developed in small groups	1.0	2.3	1.4	1.2	2.1	2.0
Conferred with other student about their work	1.2	1.8	1.7	1.3	2.7	2.2

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow-up Survey, 1994–95.

Table S37-4 Standard errors for table 37-4

Selected teaching methods	Years of						
	Total	teaching experience		Level of education			
		Less than 4	4 or more	Associate's	Bachelor's	Master's	Ed specialist or doctor's
Percentage of teachers who required students to perform the following in-class activities at least once a week							
Respond orally to questions testing recall	0.7	1.0	0.8	5.9	0.8	1.0	2.9
Use school- or student-owned calculators	0.9	1.4	1.0	4.2	1.2	1.5	5.6
Lead whole group discussions	0.9	1.7	1.0	10.8	1.5	1.4	4.4
Listen to or observe teacher presentations	0.9	1.5	1.1	7.7	1.1	1.5	4.7
Use hands-on materials or objects	0.9	1.4	1.0	6.7	1.1	1.4	4.4
Complete a worksheet or workbook emphasizing routine practice	0.8	1.4	0.9	9.8	1.1	1.4	3.7
Use a textbook	1.1	1.2	1.2	9.5	1.3	1.9	3.6
Engage in discussion primarily with the teacher	0.8	1.3	0.9	4.8	0.9	1.4	3.0
Use school computers for writing	0.9	1.5	1.0	4.5	1.3	1.6	5.2
Use supplementary printed materials other than textbooks	0.8	1.3	0.9	4.5	0.9	1.5	2.5
Engage in discussion primarily with other students	0.8	1.2	1.0	9.8	1.2	1.6	3.1
Respond orally to open-ended questions	0.7	1.1	0.8	2.8	1.0	1.1	2.0
Work on a performing arts project	0.8	1.3	0.8	7.4	1.2	1.3	4.8
Percentage of teachers who reported that students performed the following at least once a week							
Explained how what they learned in class related to the real world	1.0	1.2	1.2	6.9	1.5	1.7	4.8
Worked individually on projects or presentations	1.2	1.5	1.4	9.3	1.7	1.8	5.2
Worked on projects that required at least one week to complete	0.9	1.5	1.0	9.5	1.0	1.4	4.6
Evaluated and improved their own work	1.0	1.1	1.1	6.5	1.4	1.3	4.5
Worked on problems for which there were several appropriate answers	1.0	1.3	1.2	7.7	1.2	1.6	4.9
Worked on problems for which there were several appropriate methods of solution	1.1	1.6	1.3	9.3	1.2	1.7	5.0
Worked as part of a group on projects or presentations to earn individual grades	1.1	1.5	1.3	10.8	1.1	1.9	5.0
Evaluated the work of other students	1.0	1.7	1.2	9.8	1.1	1.6	5.4
Worked as part of a group on projects or presentations to earn a group grade	0.9	1.3	1.0	10.4	1.0	1.7	4.0
Put events or things in order and explained why they were organized that way	1.0	1.7	1.1	10.7	1.4	1.3	4.9
Discussed with the whole class solutions developed in small groups	0.9	1.3	1.0	10.6	1.3	1.7	4.1
Conferred with other student about their work	1.1	1.3	1.2	9.5	1.3	1.7	5.6

SOURCE: U.S. Department of Education, National Center for Education Statistics, Teacher Follow-up Survey, 1994–95.